SIEMENS

Product data sheet 3RU2116-0BC1



OVERLOAD RELAY 0.14...0.20 A FOR MOTOR PROTECTION SZ S00, CLASS 10, STAND-ALONE INSTALLATION MAIN CIRCUIT: SPRING TERMINAL AUX. CIRCUIT: SPRING TERMINAL MANUAL-AUTOMATIC-RESET

General technical data:		
Product brand name		SIRIUS
product designation		3RU2 thermal overload relay
Protection class IP / on the front		IP20
Insulation voltage / with degree of pollution 3		
• rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during transport	°C	-55 80
during storage	°C	-55 80
during operating	°C	-40 70
Relative humidity		
during operating phase	/ %	90
Resistance against shock		8g / 10 ms
Impulse voltage resistance / rated value	kV	6
Active power loss / total / typical	W	4.3
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F
according to DIN EN 61346-2		F

Trip class	CLASS 10
Type of assignement	2
Size of overload relay	S00
Size of the contactor / can be combined	
• company-specific	S00

Main circuit:			
Number of poles / for main current circuit		3	
Operating voltage / at AC-3 / rated value			
• maximum	V	690	
Operating current / at AC-3 / at 400 V			
rated value	Α	0.2	
Service power / at AC-3			
• at 400 V / rated value	kW	0.06	
at 500 V / rated value	kW	0.09	
at 690 V / rated value	kW	0.09	
Adjustable response current			
of the current-dependent overload release	Α	0.14 0.2	
Operating current / of the fuse link / rated value	Α	1	

Auxiliary circuit:				
Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles		
Number of NC contacts / for auxiliary contacts		1		
Number of NO contacts / for auxiliary contacts		1		
Number of change-over switches / for auxiliary contacts		0		
Operating current / of the auxiliary contacts				
• at AC-15				
• at 24 V	Α	3		
• at 110 V	Α	3		
• at 120 V	Α	3		
• at 125 V	Α	3		
• at 230 V	Α	2		
• at 400 V	Α	1		
• at DC-13				
• at 24 V	Α	1		
• at 110 V	Α	0.22		
• at 125 V	Α	0.22		
• at 220 V	Α	0.11		

Short-circuit:

Design of the fuse link / for short-circuit protection of the
auxiliary switch / required

fuse gG: 10 A

Installation/mounting/dimensions:		
Built in orientation		vertical
Type of mounting		stand-alone installation
Width	mm	45
Height	mm	87
Depth	mm	73
Distance, to be maintained, to the ranks assembly		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6
Distance, to be maintained, to earthed part		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6
Distance, to be maintained, conductive elements		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6
Connections:		
Design of the electrical connection		
for main current circuit		spring-loaded terminals
for auxiliary and control current circuit		spring-loaded terminals
Product function / removable terminal for auxiliary and control circuit		No
Type of the connectable conductor cross-section		
• for main contacts		
• solid		2x (0.5 4 mm2)

• stranded

• finely stranded

• with conductor end processing

• without conductor final cutting

2x (0.5 ... 4 mm2)

2 x (0.5 ... 2.5 mm2)

2x (0.5 ... 2.5 mm2)

for AWG conductors / for main contacts	1x (20 12)
for auxiliary contacts	
• solid	2x (0.5 2.5 mm2)
• finely stranded	
with conductor end processing	2x (0.5 1.5 mm2)
without conductor final cutting	2 x (0.5 1.5 mm2)
• for AWG conductors / for auxiliary contacts	2x (20 14)

• Ior AWG conductor	S / IOI auxiliary Co	ontacts		ZX (ZU .	14)	
Certificates/approve	als:					
Verification of suitabil	lity			CE / UL	./CSA	
• ATEX			No			
General Product App	proval				For use in hazardous locations	Test Certificates
coc	(SA	ROSTEST			DEKRA EXAM, DMT	Manufacturer
Shipping Approval						
ABS	DNV DNV	GL®	Lloyd's Register LRS		PRS	RINA
Shipping Approval	other					

Manufacturer

Reliability figures:			
а	2,280		
%	50		
%	50		
FIT	50		
а	20		
	finger-safe		
	% % FIT		

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

Cax online generator:

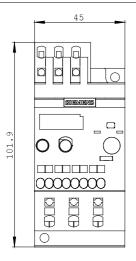
http://www.siemens.com/cax

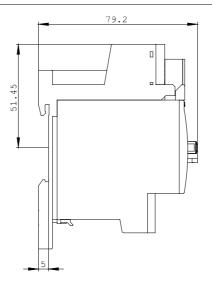
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

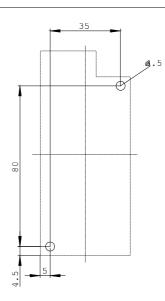
http://support.automation.siemens.com/WW/view/en/3RU2116-0BC1/all

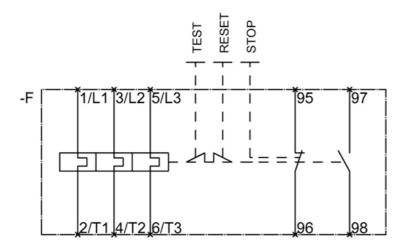
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2116-0BC1









last change: Oct 17, 2011